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APPLICANT(S): Yamaguchi et al.

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U.S. PATENT DOCUMENTS

| EXAM. INIT. | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|-------------|----|-----------------|----------|------|-------|-----------|----------------------------|
| Fit | AA | 4,179,337 | 12/18/79 | | 435 | 81 | |
| | AB | 5,118,667 | 6/2/92 | | 514 | 12 | |
| | AC | 5,393,739 | 2/28/95 | | 514 | 12 | |
| | AD | 5,447,851 | 9/5/95 | | 435 | 69.7 | |
| | AE | 5,578,569 | 11/26/96 | | 514 | 12 | |
| | AF | 5,599,708 | 2/4/97 | | 435 | 240.27 | |
| | AG | 5,658,756 | 8/19/97 | | 435 | 69.1 | |
| | AH | 5,985,832 | 11/16/99 | | 514 | 12 | |

FOREIGN PATENT DOCUMENTS

| EXAM. INIT. | | DOCUMENT NUMBER | DATE | COUNTRY CODE | CLASS | SUB CLASS | FILING DATE | ABSTRACT ONLY | ENGLISH LANG (Y/N) |
|-------------|----|-----------------|----------|--------------|---------|-----------|-------------|---------------|--------------------|
| Fit | BB | 0 514 130 A2 | 11/19/92 | EP | A61K 37 | 02 | 05/12/92 | | Y |
| | BC | 0 727 211 A1 | 8/21/96 | EP | A61K 31 | 50 | 2/7/96 | | Y |
| | BD | 96/28546 | 9/19/96 | WO | C12N 15 | 00 | 3/15/95 | | Y |
| | BE | 97/00317 | 1/3/97 | WO | C12N 15 | 11 | 6/4/96 | | Y |
| | BF | 97/00318 | 1/3/97 | WO | C12N 15 | 11 | 6/7/95 | | Y |
| | BG | 97/23614 | 7/3/97 | WO | C12N 15 | 12 | 12/20/96 | | Y |
| | BH | 98/07840 | 2/26/98 | WO | C12N 15 | 00 | 8/19/97 | | N |
| | BI | 330400 | 5/28/99 | NZ | C07H 21 | 04 | 5/7/98 | | Y |



| OTHER ART, JOURNAL ARTICLES, ETC. | | |
|-----------------------------------|--|--|
| EXAM. INIT. | OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) | |
| Fit | CF | Fenton, A.J. et al., "Long-Term Culture of Disaggregated Rat Osteoclasts: Inhibition of Bone Resorption and Reduction of Osteoclast-Like Cell Number by Calcitonin and PTHrP[107-139]" <u>J. Cellular Phys.</u> 155:1-7 (1993) |
| | CG | Adams, M.D. et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project", <u>Science</u> , vol. 252, 21 June 1991, pp. 1651-1656. |
| | CH | Chambers et al., "Generation of osteoclast-inductive and osteoclastogenic cell lines from the H-2btsA58 transgenic mouse," <u>Proceed. of the National Acad. of Sciences of USA</u> , vol. 90, June 1993, pgs. 5578-5582. |
| | CI | Chenu et al., "Transforming growth factor β inhibits formation of osteoclast-like cells in long-term human marrow cells," <u>Proceed. of the National Acad. of Sciences of USA</u> , vol. 85, August 1998, pgs. 5683-5687. |
| | CJ | F.W. Fawthrop et al., "The Effect of Transforming Growth Factor β on the Plasminogen Activator Activity of Normal Human Osteoblast-like Cells and a Human Osteosarcoma Cell Line MG-63" <u>J. Bone and Mineral Res.</u> 7(12):1363-1371 (1992) |
| | CK | Goodwin et al., "Molecular cloning and expression of the type 1 and type 2 receptors for tumor necrosis factor," <u>Database EMROD, EMBL Databases</u> , Accession Number: M59378, June 28, 1991. |
| | CL | Gowen et al., "Preferential Inhibition of Cytokine-Stimulated Bone Resorption by Recombinant Interferon Gamma," <u>Journal of Bone and Mineral Research</u> , vol. 1, number 5, 1986, pgs. 469-474. |
| | CM | Hattersley et al., "Human Macrophage Colony-Stimulating Factor Inhibits Bone Resorption by Osteoclasts Disaggregated From Rat Bone," <u>Journal of Cellular Physiology</u> , vol. 137, number 1, October 1998, pgs. 199-203. |
| | CN | Kasono et al., "Inhibitory effect of interleukin-4 on osteoclast-like cell formation in mouse bone marrow culture," <u>Bone and Mineral</u> , vol. 21, 1993, pgs. 179-188. |
| | CO | Kukita et al., "Osteoinductive factor inhibits formation of human osteoclast-like cells", <u>Proc. Natl. Acad. Sci. USA</u> , vol. 87, 29 January 1990, pp. 3023-3026. |
| | CP | Lewis et al., "Cloning and expression of cDNAs for two distinct murine tumor necrosis factor receptors demonstrate one receptor is species specific", <u>Proc. Natl. Aca. Sci. USA</u> , vol. 88, 1991, pp. 2830-2834. |
| | CQ | Reddi, "Bone morphogenesis and modeling: soluble signals sculpt osteosomes in the solid state," <u>CELL</u> , vol. 89, April 18, 1997, pgs. 159-161. |
| | CR | Smith et al., "The TNF receptor superfamily of cellular and viral proteins: activation, costimulation, and death," <u>CELL</u> , vol. 76, March 25, 1994, pgs. 959-962. |
| | CS | Simonet et al., "Osteoprotegerin: a novel secreted protein involved in the regulation of bone density," <u>CELL</u> , vol. 89, April 18, 1997, pgs. 309-319. |
| | CT | Suda et al., "Modulation of Osteoclast Differentiation by Local Factors" <u>Bone</u> 117(2 Supp.):87S-91S (1995) |
| | CU | Takada et al., "A simple method to assess osteoclast-mediated bone resorption using unfractionated bone cells," <u>Bone and Mineral</u> , vol. 17, 1992, pgs. 347-359. |
| ✓ | CV | Watanabe et al., "Interleukin-4 as a Potent Inhibitor of Bone Resorption," <u>Biochem. and Biophys. Research Comm.</u> , vol. 172, number 3, 1990, November 1990, pgs. 1035-1041. |



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| | CW | oneda, Toshiyuki, et al., "Sumarin Suppresses Hypercalcemia and Osteoclastic Bone Resorption in Nude Mice Bearing a Human Squamous Cancer", vol. 55, 1 May 1995, pp. 1989-1993, <u>Cancer Research</u> . |
| EXAMINER | DATE CONSIDERED 6/11/01 | |

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